

DATA TRAFFIC MANAGER AND METHOD THEREFOR

ABSTRACT OF THE INVENTION

A data traffic manager includes a time-spaced round robin (TSRR) scheduler and an enqueue engine. The enqueue engine is connected to an ATM data port and receives cells of data and determines whether the cell data is one of conformant and non-conformant. The data is placed into one of a plurality of per-class shaper queues that are spaced generally equally in time. A conformant cell is queued to a currently served queue and a non-conformant cell is shaped based on a cell delay time. The TSRR scheduler schedules cells of data from the shaper queues for transmission using a time-spaced round robin algorithm.